**File Transfer Protocol over SSL**

FTP/SSL
This method is sometimes referred as FTP over SSL or FTPS. Conventional port number used for this protocol is 990. However, SCO has a proxy server as a front end to its mainframe, allowing the clients to connect to it. Clients are expected to use port 21 and ephemeral ports 50290 through 50299 as transitory data ports.

SCO supports Core FTP Lite, FileZilla, WS-FTP Professional, and Reflection FTP Client. All four of them provide FTP/SSL. We are recommending Filezilla for the SCO Payroll Deduction Reporting process and the following instructions are for using Filezilla. Additional documentation for Core-FTP, WS-FTP and Attachmate Reflection can be provided upon request.

Then newest versions of Filezilla (3.0.12 and newer) are not supported by our server, so we are recommending retrieving version 3.0.11 which can be found at http://www.pcauthority.com.au/Download/114241,filezilla-3011.aspx .

Setup

Choose the components to install
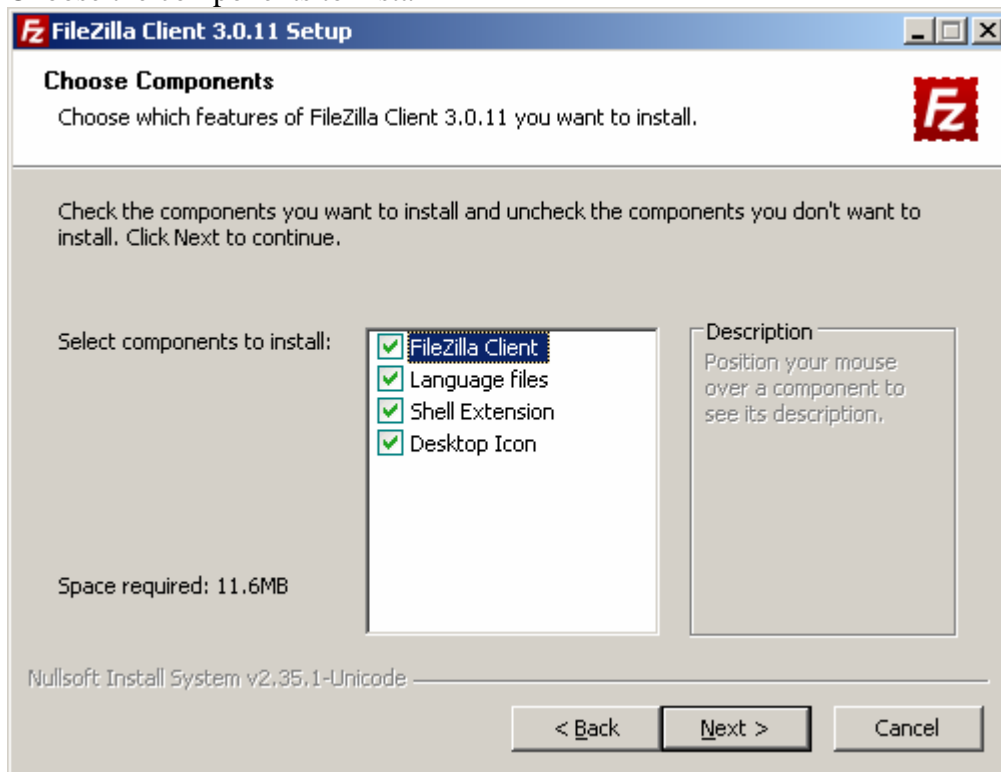
Configuration

After starting up Filezilla go to Transfer, Transfer Type and choose the type (for most users it will be ASCII).
Next go to File, Site Manager, you will see a Site Manager popup.
Please set up a site to connect to the proxy as shown in the screen print.
Configure as follows:
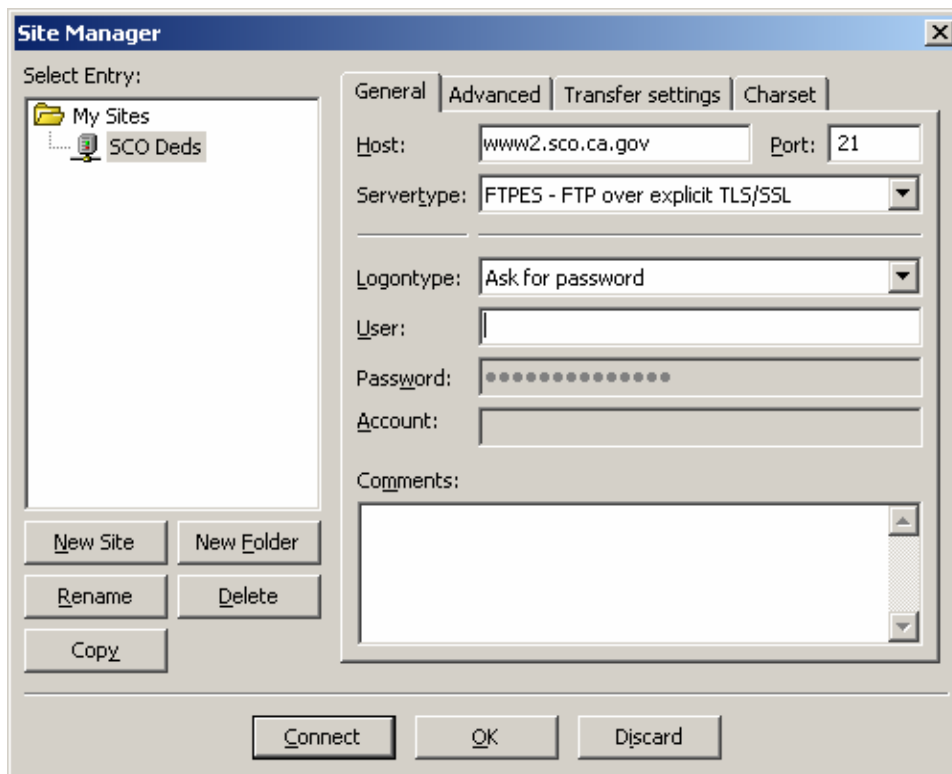**New Site :** name it to anything you'd like
Host: www2.sco.ca.gov
Port: 21
Connection: FTPES – FTP over explicit TLS/SSL
Logontype: Ask for password
User: Use the SCO mainframe user ID (provided in the email sent to you)
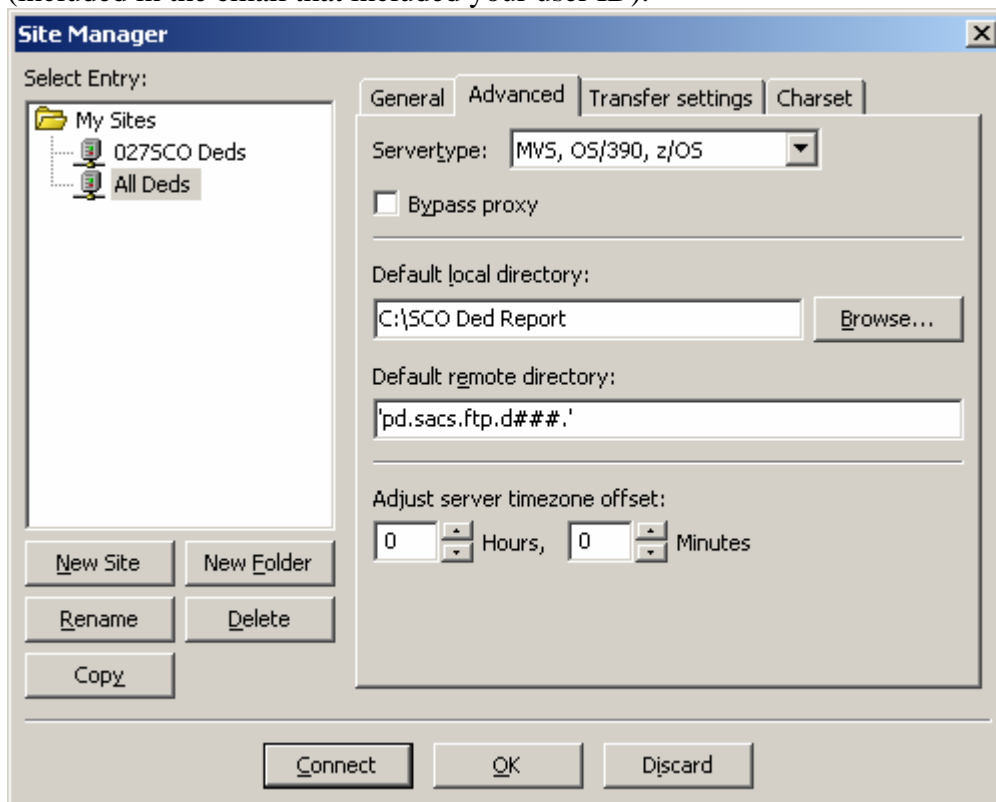
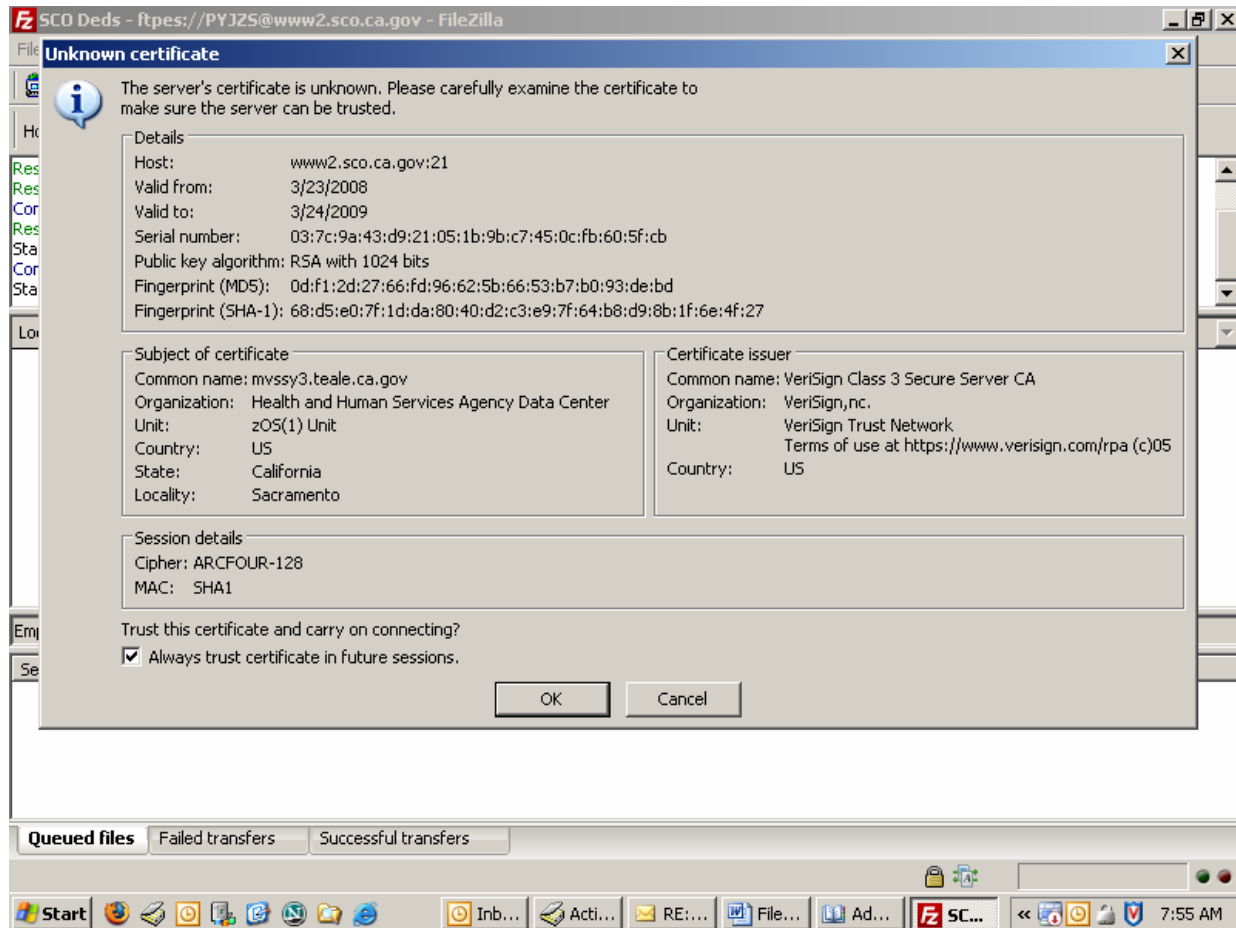Go to Advanced Tab
Servertype: MVS, OS/390, z/OS
Default local directory: browse to the location you want to store your files
Default remote directory: 'pd.sacs.ftp.d###.' where ### is the file assigned to you by SCO
(included in the email that included your user ID).

Connect

Click on Connect button, and you will see a popup on Certificate Information as follows.

You can click on Always trust certificate in future session to avoid being prompted with this each time you connect. Click OK.

SCO Mainframe Password

Enter your mainframe Password when prompted.

If this is the first time you are using the user id, SCO security group has assigned you a temporary password. You need to change the password by entering the following combination without spaces and without quotes

currentpassword/newpassword/newpassword

In addition, FTP client software simply returns '530 password error' when your password is expired. When you suspect your password may have expired, try to change it by entering the combination of current password new password mentioned above.

SCO mainframe password rules are

- Passwords expire after 90 days
- The system maintains 32 generations of password, so you should not reuse those
- After 5 consecutive unsuccessful attempts, the user id will be revoked. You will need to contact SCO Information Security group to get the id resumed.
- If the user id remains inactive 90 days, it will be revoked.
- For password syntax, a strong password is required which must include at least one upper case letter, one lower case letter and a number.

File Transfer

Upon successful logon, you will see a screen with a list of the files in your mainframe home directory. Your files will be named using a specific convention. The naming convention for your files will be Month, File Designation Code, Reporting Frequency Indicator and Translation Indicator.

The file name will consist of Month (three characters), followed by a file designation code (three characters), followed by an "A" or a "B". The "A" indicates the file is a mid-month file (if your organization receives reports on a semi-monthly basis). The "B" indicates the file is a month-end file. The last character of the file name indicates whether the file is ASCii or EBCDIC translation. ASCii translation files will be indicated by the character "P", while EBCDIC translation files will be blank.

Sample file names are as follows:

JUL150A   July Mid-Month report-EBCDIC
JUL150AP   July Mid-Month report-ASCii
JUL150B   July Month-end report-EBCDIC
JUL150BP   July Month-end report-ASCii
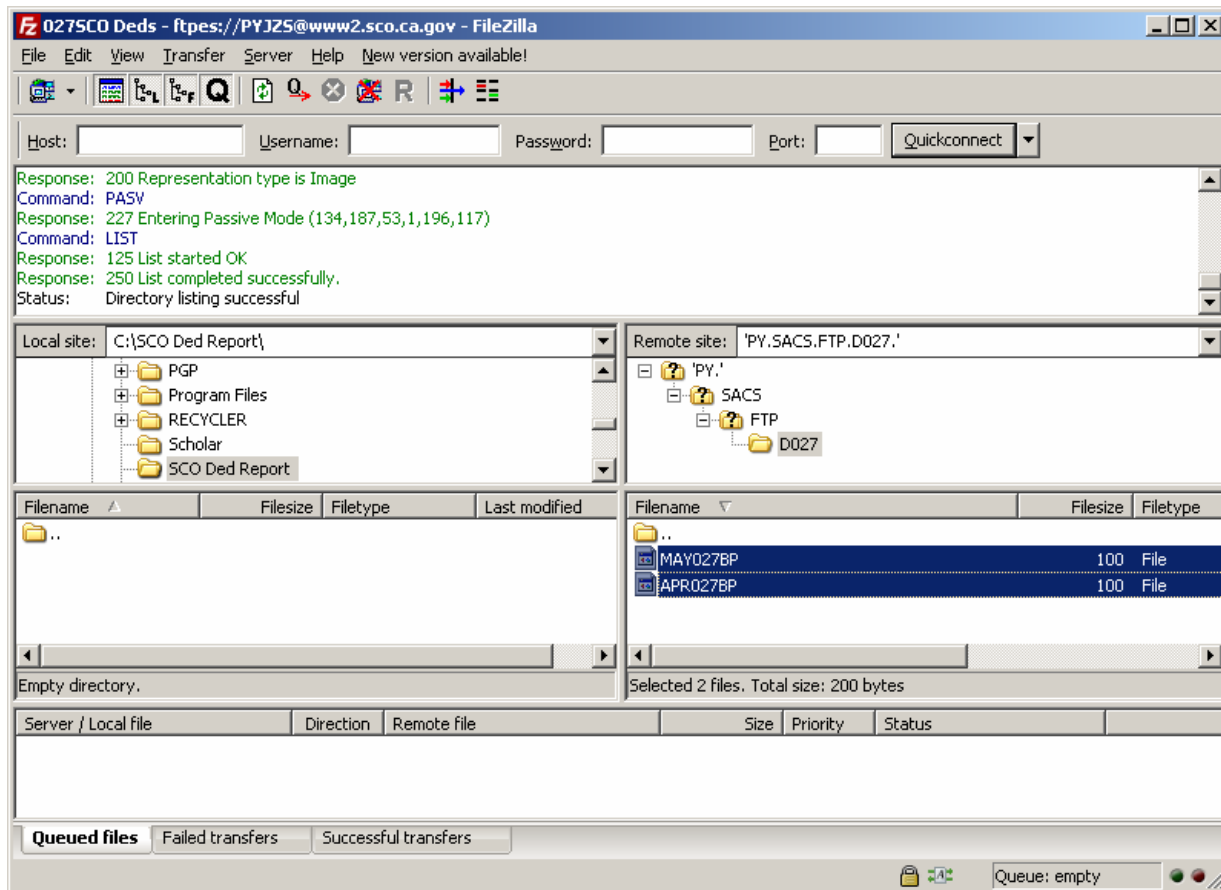
From here, you can click on the file you want to download and drag and drop to the target area, double click it or right click on it and choose download.

Open File
Close Filezilla and go to the **Default local directory** that you setup in the configuration process. You can open the file by double clicking it and choosing the program to open it with or opening excel, go to file open, browse to the **Default local directory,** change Files of Type to 'All Files (*.*)' and then choosing the file name. This will take you through the wizard to format your report.

File Characteristics

The State Controller's Office will generate two types of files for each organization, EBCDIC formatted and ASCII formatted.

Characteristics of the EBCDIC formatted file:

The file will contain two types of records, one for detail and the other a total record. Please refer to the file descriptions and layouts beginning on page 58. The logical record length is 90 characters.

Characteristics of the ASCII formatted file:

The file will contain two types of records, one for detail and the other a total record. Please refer to the file descriptions and layouts beginning on page 58. The logical record length is 106 characters.

Common Errors
The most common errors are invalid login userid or password. If you cannot remember your password or suspect it's expired, please contact SCO Information Security Office at (916) 322-8094
.
If you can connect and login to the system but cannot see the directory listing, you may have problem receiving the data. Have your firewall admin confirm that ports 50290 through 50299 are enabled.
For any problems related to the nature of the data file, contact the Deduction Program Coordinator at (916) 322-7968 on Monday through Friday, 0800 through 1700.
For any problems related to the connection contact the SACS technical support at (916) 322-0699 or (916) 322-8096. The Department of Technology Services help desk can also be contacted in order to troubleshoot connection problems at (916) 464-4311.